

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: METALUX

Report Number: P291052

Luminaire Tested: **14GR-LD5-24-A-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291052
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33314)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-24-A-UNV-L93050-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1897.0 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

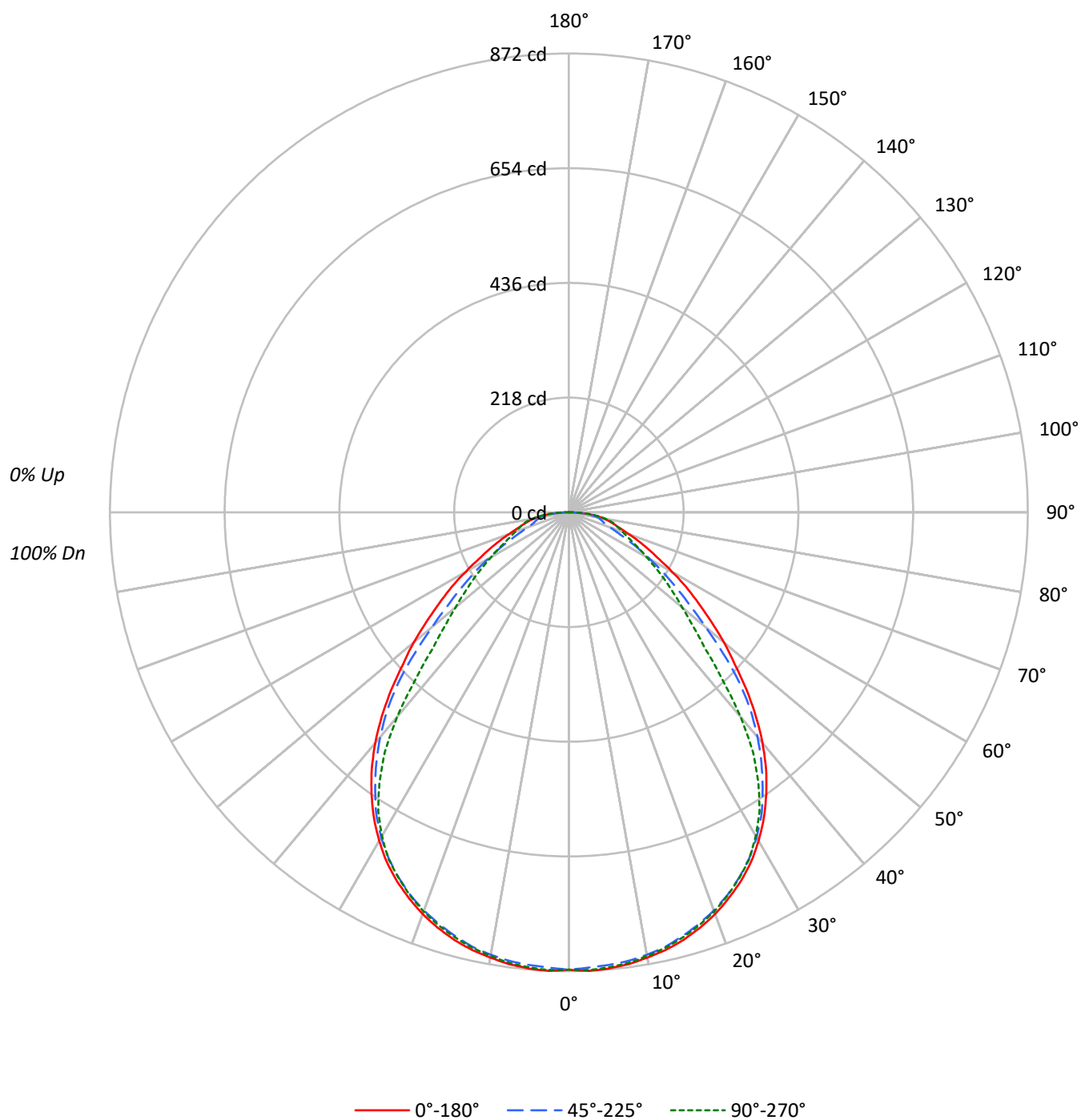
Input Watts (W): 18.693
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	110	106	102	98	107	103	100	97	99	96	94		95	93	91		86
2	101	94	88	83	99	92	86	82	88	84	80		85	81	78		74
3	93	84	76	71	91	82	75	70	79	74	69		77	72	68		64
4	86	75	67	61	84	74	67	61	72	65	60		69	64	59		56
5	80	68	60	54	78	67	59	53	65	58	53		63	57	52		50
6	74	62	54	48	72	61	53	47	59	52	47		58	51	47		44
7	69	57	48	43	67	56	48	43	54	47	42		53	47	42		40
8	65	52	44	38	63	51	44	38	50	43	38		49	43	38		36
9	61	48	40	35	59	47	40	35	46	39	35		45	39	35		33
10	57	44	37	32	56	44	37	32	43	36	32		42	36	32		30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2339	2339	2339
5°	2351	2333	2345
10°	2348	2333	2339
15°	2343	2322	2330
20°	2327	2305	2312
25°	2296	2274	2275
30°	2240	2216	2207
35°	2148	2109	2061
40°	2010	1959	1783
45°	1816	1747	1393
50°	1610	1418	1178
55°	1406	1164	1040
60°	1219	958	918
65°	1069	769	848
70°	954	651	853
75°	930	687	952
80°	1031	868	1093
85°	1074	926	1278



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.5	4.3
10°-20°	236.3	12.5
20°-30°	353.4	18.6
30°-40°	399.0	21.0
40°-50°	338.5	17.8
50°-60°	229.0	12.1
60°-70°	136.7	7.2
70°-80°	85.6	4.5
80°-90°	36.0	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	672.2	35.4
0°-40°	1071.2	56.5
0°-60°	1638.7	86.4
0°-90°	1897.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1897.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	869	869	869	869	869	
5°	870	868	864	870	868	83
15°	841	839	834	839	836	237
25°	773	771	766	769	766	356
35°	654	649	642	636	627	407
45°	477	479	459	393	366	368
55°	300	286	248	222	222	270
65°	168	139	121	129	133	168
75°	89	80	66	87	92	96
85°	35	33	30	39	41	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	869.3	869.3	869.3	869.3	869.3
2.5°	872.4	869.7	865.8	871.1	870.6
5°	870.2	867.5	863.6	869.7	868.0
7.5°	866.2	864.0	860.0	865.8	864.0
10°	859.2	857.4	853.9	858.7	856.1
12.5°	851.7	850.3	845.9	850.3	847.7
15°	841.1	839.3	833.6	839.3	836.2
17.5°	827.9	825.7	820.8	825.7	823.0
20°	812.5	809.8	805.0	809.8	807.2
22.5°	793.9	791.7	787.3	791.7	788.2
25°	773.2	770.6	765.8	769.3	766.2
27.5°	749.4	745.9	741.5	744.2	742.4
30°	720.8	716.4	713.3	713.3	710.2
32.5°	689.5	686.4	681.2	678.1	674.1
35°	653.8	649.4	641.9	636.2	627.4
37.5°	615.5	610.2	601.0	586.4	574.5
40°	572.3	565.7	557.8	529.2	507.6
42.5°	526.1	524.7	511.1	462.2	432.2
45°	477.2	478.9	459.1	393.4	366.1
47.5°	427.8	434.0	397.9	333.5	319.4
50°	384.6	386.8	338.8	289.5	281.5
52.5°	340.1	336.6	289.0	254.7	248.9
55°	299.6	285.5	248.1	222.1	221.6
57.5°	263.9	237.9	211.9	192.5	194.7
60°	226.5	197.4	178.0	167.4	170.5
62.5°	193.4	165.7	148.5	145.4	150.7
65°	167.9	139.2	120.7	128.7	133.1
67.5°	143.6	119.4	98.3	117.2	119.0
70°	121.2	103.5	82.8	107.9	108.4
72.5°	102.7	91.6	71.8	97.8	99.1
75°	89.4	79.7	66.1	87.2	91.6
77.5°	78.4	68.3	61.2	75.3	82.8
80°	66.5	55.1	56.0	63.0	70.5
82.5°	51.1	42.7	44.5	52.0	57.3
85°	34.8	33.0	30.0	38.8	41.4
87.5°	18.5	17.6	15.4	22.0	20.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)